

# PATENT SPECIFICATION

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227,040

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## COMPLETE SPECIFICATION.

### An Improved Refrigerating Cabinet.

We, THE PURE ICE COMPANY LIMITED, of 13 to 16, West Smithfield, London, E.C. 1, a British company, and SIDNEY WILLIAM ALEXANDER, of the same address, a British subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The usual refrigerating vessels for the reception of ice cream in cans and the like are such that as the freezing mixture melts the ice cream can tends to float therein, and this not only renders difficult the removal of ice cream from the can but is frequently the cause of contamination of the ice cream as a result of some of the freezing mixture passing over the open top of a can into the contents thereof. A further disadvantage arising from the buoyancy of the can is that the greater part thereof is exposed to the ambient atmosphere and acts as a heat conductor so that loss of efficiency and deterioration of the contents thereof results.

In some freezing apparatus it has been proposed to place the ice cream or the like in a vessel which is introduced into the vessel containing the freezing mixture through a flanged aperture in the cover of the latter vessel. It has also been proposed that a refrigerating cabinet should comprise an external casing, a jacket of insulating material within said casing, a water tight tank within said jacket, a smaller watertight tank disposed within and spaced from the first mentioned tank, and a cover for said casing formed with a removable hatch adapted to give access to the inner tank.

The object of the present invention is to provide an efficient refrigerating cabinet and to obviate possibility of the contents becoming contaminated. To this end the smaller watertight tank of a

cabinet such as just mentioned is provided with an apertured flanged cover adapted to give passage to, and to guide, ice cream cans or like receptacles.

One form of the invention is illustrated by the accompanying drawings wherein Figure 1 is a sectional side elevation on the line 1—1, Figure 3; Figure 2 is a sectional end elevation on the line 2—2, Figure 3; and Figure 3 is a plan.

The cabinet has an external casing consisting of wooden frames *a* and panels *b* the joints between which are sealed by a lining *c* of asphaltic solution. Within this casing is an insulating jacket *d* held in position by a watertight metal tank *e* the exterior of which is also coated with asphaltic solution, said tank being thus insulated at its sides, ends and bottom. Within the tank *e* and spaced therefrom is a smaller watertight metal tank *f* supported by feet *g*, thus leaving a space *h* for the freezing mixture between the sides, ends and bottom of the tanks *e* and *f*.

The tank *f* is provided with a partition *j* and a cover *k*, the latter being formed with apertures flanged as at *m* to give passage to, and guide, ice cream cans provided with individual covers *o*.

The casing *a b* is formed with a top consisting of a frame *p* in which is rebated a hinged cover *q*, adapted to give access to the space *h* for the freezing mixture, and in the cover *q* are in turn rebated two hinged hatches *r* adapted to give access to the ice cream cans *n*. The cabinet is provided with means for draining off the space *h* for the freezing mixture, such for instance as pipes *s* passing through and secured by watertight joints to, the panels *b*, insulating jacket *d* and tank *e*, said pipes *s* being closed normally by screwed plugs *t*.

If desired the space *h* may be divided into two or more parts by a partition or partitions between the tanks *e* and *f*.

[Price 1/-]

The construction is such that there is always a free circulation around and beneath the inner tank *f*, and if the space *h* be subdivided each portion of the subdivided inner tank may be used independently of the other, either for ice cream or the like in cans or in brick or similar form without risk of contact with the refrigerating medium, and as the space *h* is never opened to obtain access to the ice cream cans *n* there is no loss of efficiency, whilst as the cans *n* cannot float in melted freezing mixture it is easy to remove ice cream therefrom without risk of contamination. Further, the provision of the flanged cover *k* serves to obstruct the ingress of warm air when the hatches *r* are opened and the covers *o* removed.

It is to be understood that the cabinet may be subdivided to accommodate any desired number of ice cream cans.

Having now particularly described and ascertained the nature of our said inven-

tion and in what manner the same is to be performed, we declare that what we claim is:—

1. An improved refrigerating cabinet comprising an external casing, a jacket of insulating material within said casing, a watertight tank within said jacket, a smaller watertight tank disposed within and spaced from the first mentioned tank, a cover for said casing formed with a removable hatch adapted to give access to the inner tank, and an apertured flanged cover for the inner tank adapted to give passage to, and to guide, ice cream cans or like receptacles.

2. An improved refrigerating cabinet, constructed and arranged substantially as hereinbefore set forth with reference to the accompanying drawings.

Dated the 23rd day of May, 1924.

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Fig. 1.

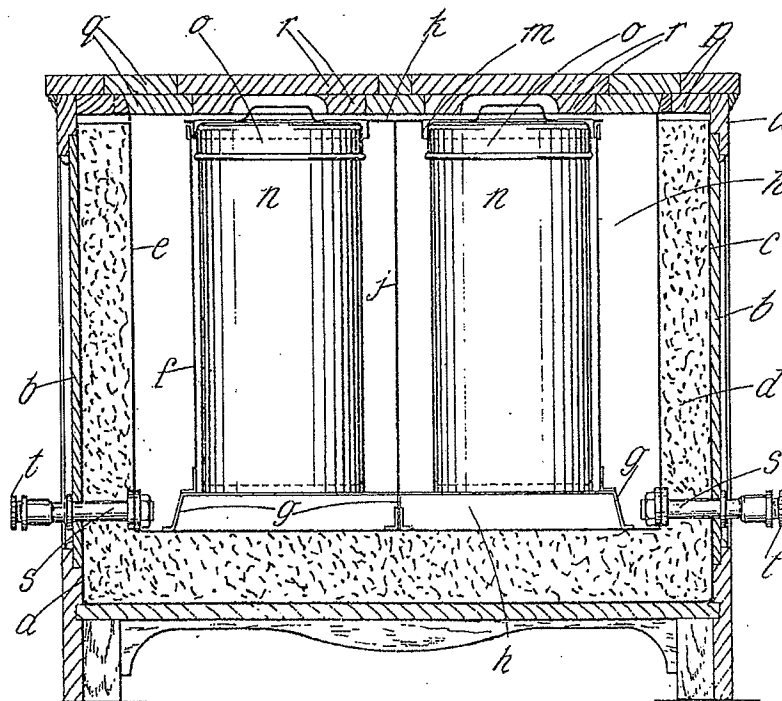
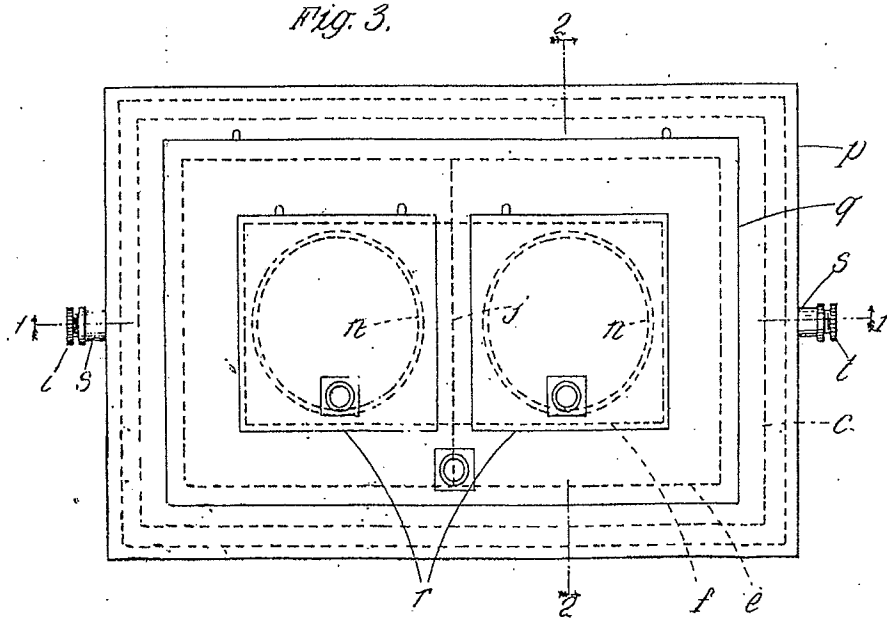
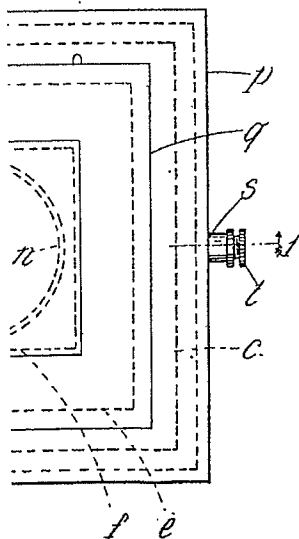
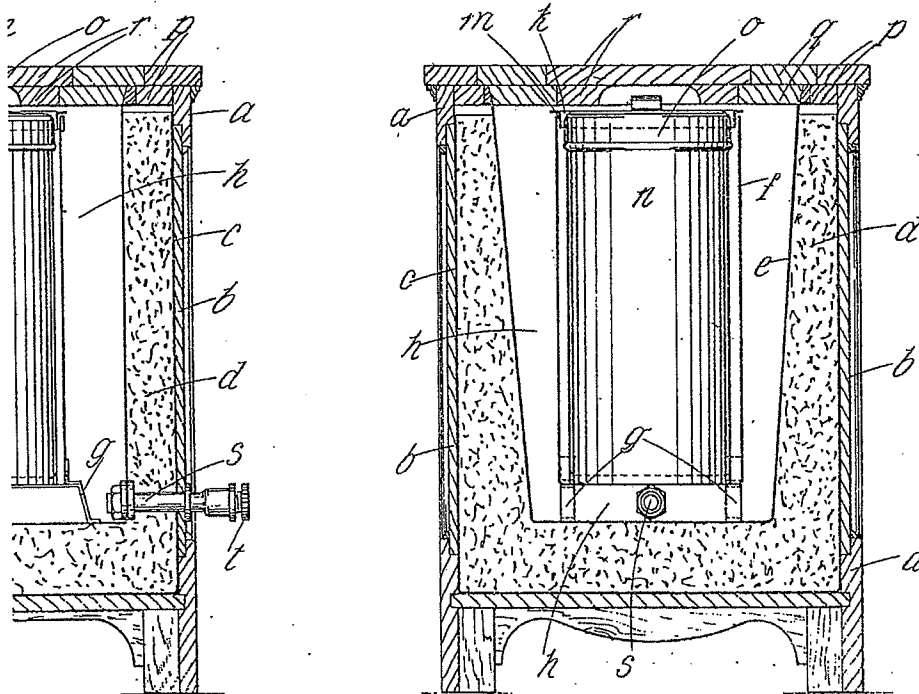


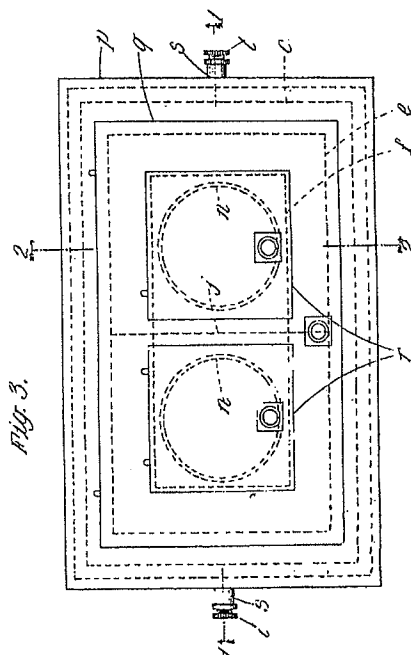
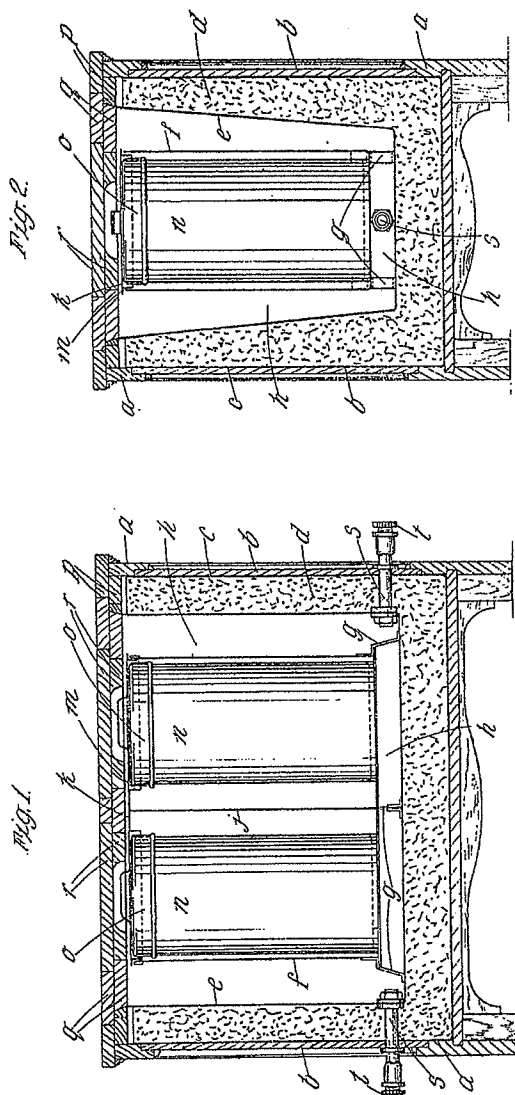
Fig. 3.



[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 2.





[This Drawing is a reproduction of the Original on a reduced scale]